

ABSTRACT

A device for monitoring around a vehicle capable of detecting objects present around the vehicle based on an image captured by at least one infrared camera member provided with the vehicle. An area which is inferred to correspond to the pedestrian's head is established as a reference area. Two object areas are established above the reference area so as to correspond to spaces above the shoulders in both sides of the pedestrian's head. An area which corresponds to the head and the shoulders in an infra-red ray image is acknowledged. Other object area which is inferred to correspond to the shoulders and arms of the pedestrian is established. If a distance from an entire pedestrian and a distance from an area which corresponds to the shoulders and arms are equal, it is acknowledged that a binary object including the area which corresponds to the shoulders and arms indicates a pedestrian.